

## ABSTRACT OF THE DISCLOSURE

A transceiver of a communication system is disclosed. The transceiver comprises a front-end receiver for receiving a receiving signal and converting to a first signal with a pre-cursor component and a post-cursor component, a noise canceller coupled to the front-end receiver  
5 for generating a second signal through eliminating the noise of the first signal, a Feed-Forward Equalizer (FFE) coupled to the noise canceller for generating a third signal through eliminating the pre-cursor component in the second signal according to a transfer function including a plurality of  
10 adjustable constants, wherein the adjustable constants includes a main-tap and the value of the main-tap is predetermined, and a decoding system coupled to the FFE for decoding the third signal and eliminating the post-cursor component in the third signal.